PATENT COOPERATION TREATY

PCT

TRANSLATION INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

| Applicant's or agent's file reference S2701PCT | FOR FURTHER A | CTION | See Form PCT/IPEA/416 | | | | | | |
|---|---|----------------------------|---|--|--|--|--|--|--|
| International application No. | | e (day/month/year) | Priority date (day/month/year) | | | | | | |
| PCT/JP2004/013364 14.09.20 | | 4 | 24.09.2003 | | | | | | |
| International Patent Classification (IPC) or nati | ional classification and I | PC | | | | | | | |
| A01N49/00, A01N25/08, A01N25/18, A01N35/02, | | | | | | | | | |
| A01N37/02 | | | | | | | | | |
| Applicant | | | | | | | | | |
| SANKEI CHEMICAL CO., | LTD | | | | | | | | |
| | | | | | | | | | |
| This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36. | | | | | | | | | |
| 2. This REPORT consists of a total of | 4 | sheets, including | this cover sheet. | | | | | | |
| This report is also accompanied by A | _ | | | | | | | | |
| a. (sent to the applicant and | | requiatotal of 2 | sheets, as follows: | | | | | | |
| | | | | | | | | | |
| | sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions). | | | | | | | | |
| sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box. | | | | | | | | | |
| | | | | | | | | | |
| o. [] (sem to the international | Dareuu viny) a total 01 t | | | | | | | | |
| , containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see | | | | | | | | | |
| Section 802 of the Adminis | | a moreated in the Supplet | monate Box Relating to Sequence Bising (see | | | | | | |
| 4. This report contains indications relat | ing to the following iten | ns: | | | | | | | |
| Box No. I Basis of the | e report | | | | | | | | |
| Box No. II Priority | | | | | | | | | |
| Box No. III Non-establ | ishment of opinion with | regard to novelty, inventi | ive step and industrial applicability | | | | | | |
| Box No. IV Lack of un | ity of invention | | | | | | | | |
| Box No. V Reasoned s | No. 1 April 2000 M. Land Land Land Land Land Land Land Land | | | | | | | | |
| Box No. VI Certain do | cuments cited | | | | | | | | |
| Box No. VII Certain del | fects in the international | application | | | | | | | |
| | Box No. VIII Certain observations on the international application | | | | | | | | |
| | - India on the method | | | | | | | | |
| Date of submission of the demand | | Date of completion of thi | is report | | | | | | |
| | | | | | | | | | |
| Name and mailing address of the IPEA/JP | | Authorized officer | | | | | | | |
| | | | | | | | | | |
| F + 4.7 | | Telephone No | | | | | | | |

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/JP2004/013364

| Box | No. I | Basis of the report | | | | | |
|-----|--|--|--|--|--|--|--|
| 1. | | regard to the language, this report is based on the internation ated under this item. | al application in the language in w | hich it was filed, unless otherwise | | | |
| | | This report is based on translations from the original language which is the language of a translation furnished for the purposition international search (Rule 12.3 and 23.1(b)) | | · | | | |
| | | publication of the international application (Rule 12.4) | | 5.17 | | | |
| | | international preliminary examination (Rule 55.2 and/o | or 55.3) | | | | |
| 2. | recei | n regard to the elements of the international application, this iving Office in response to an invitation under Article 14 are report): the international application as originally filed/furnished | report is based on (replacement she referred to in this report as "ori | neets which have been furnished to the ginally filed" and are not annexed to | | | |
| | \boxtimes | the description: | | | | | |
| | | pages 1,2,4-17 | | as originally filed/furnished | | | |
| | | pages* 3 | | 22.07.2005 | | | |
| | | pages* | | | | | |
| | \boxtimes | the claims: | _ | | | | |
| | | nos. 2-4 | | as originally filed/furnished | | | |
| | | nos.* | 1.17 | with any statement) under Article 19 | | | |
| | | nos.* 1 | | 22.07.2005 | | | |
| | | nos.* | _ | | | | |
| | \boxtimes | the drawings: | | | | | |
| | | sheets fig. 1-7 | | as originally filed/furnished | | | |
| | | sheets* | | | | | |
| | | sheets* | _ | | | | |
| | П | a sequence listing and/or any related table(s) – see Supplem | _ | | | | |
| | | The amendments have resulted in the cancellation of: | one Box Rolaining to Boquello Ex | B | | | |
| 3. | LI | | | | | | |
| | | the description, pages | | | | | |
| | | the claims, nos. | | | | | |
| | | the drawings, sheets/figs | | | | | |
| | | | | , | | | |
| 4. | _ | any table(s) related to sequence listing (specify): This report has been established as if (some of) the amend | ments annexed to this report and | listed below had not been made since | | | |
| 1 | Ш | they have been considered to go beyond the disclosure as fi | | | | | |
| | | the description, pages | | | | | |
| | | the claims, nos. | · | | | | |
| | | the drawings, sheets/figs | | | | | |
| | | the sequence listing (specify): | | | | | |
| | | any table(s) related to sequence listing (specify): | | | | | |
| * | * If item 4 applies, some or all of those sheets may be marked "superseded." | | | | | | |

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/JP2004/013364

| | | | | ticle 35(2) with regard to novelty, inventive step or industrial applicability; porting such statement | |
|----|-------------------------------|--------------------|--------|---|-----|
| 1. | Statement | | | | |
| | Novelty (| N) | Claims | 1-4 | YES |
| | | • | | | |
| | Inventive | step (IS) | Claims | 1-4 | YES |
| | | | | | |
| | Industrial applicability (IA) | | Claims | 1-4 | VEC |
| | | ,, | | | |
| | | | | | |
| 2. | Citations and | explanations (Rule | 70.7) | | |
| | | The follo | wing o | documents are cited in the | |
| | intern | ational s | earch | report. | |
| | | | - | | |
| | Docume | nt 1: JP | 2002- | 520256 A (Consejo Superior De | |
| | | In | vestig | aciones Cientificas), 09 July 2002, | |
| ı | | cl | aims; | paragraphs [0010] to [0011], [0016] | |
| | | to | [0019 | and [0027] to [0028]; and the | |
| | | ex | amples | & WO 00/2448 A1 & US 6569440 B1 & | |
| | | EP | 10519 | 008 A1 | |
| | Docume | ent 2: JP | 2001- | 247410 A (Sekisui Chemical Co., | |
| | | Lt | d.), 1 | .1 September 2001, paragraphs [0010] | |
| | | to | [0013 | 3] and the examples (example 3 in | |
| | | | rticul | | |
| | Docume | _ | | 4802 A (Montedison S. p. A.), 20 | |
| | | | | .981, claims; page 4, lower left | |
| | | | | and the examples & US 4323556 A & GB | |
| | | | | A & FR 2473847 A1 & DE 3044220 A1 | |
| | Doguma | | | 72506 A (Okinawa Prefecture), 21 | |
| | Docume | | | | |
| | | ма | ren 20 | 001, claims and the examples | |
| ı | | | | | |

International application No.
PCT/JP2004/013364

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

The following document is newly cited.

Document 5: Kagaku Daijiten Henshu Iinkai ed., Kagaku
Daijiten 4 Shukusatsu-ban, Kyoritsu Shuppan
Kabushiki Kaisha, 15 August 1989, pages 796
to 797 (the definition of the term "Shosei"
[calcination])

The invention set forth in claims 1 to 4 involves an inventive step in relation to documents 1 to 5 cited in the international search report. Documents 1 to 5 do not disclose sustained-release pheromone preparations which comprise a crystalline mineral that is obtained by means of a calcination process with a temperature of 500 to 700°C. On the other hand, the inventions that are set forth in the present application exhibit an advantageous effect in that it is possible to achieve a high level of pheromone persistence as a result of the feature in question.

Furthermore, the fact that this advantageous effect can be achieved by means of a process with a calcination temperature that falls within the prescribed range is indicated in the description of the present application, and is additionally explained using complimentary test examples in the written response dated 22 December 2005.